**FORMULA SHEET.**

distance

V = --------------

Time

v

a = ------

t

F = ma

W = mgh

W = F x distance

work

P = ---------

Time

mgh

P = ---------

t

Q = It

V

R = -------

I

P = VI

P = I**2** R

V**2**

P = ------

R

*ℓ*

R = -----

A

R1 *ℓ* 1

---- = ----

R2 *ℓ* 2

R1 *ℓ* 1 A2

---- = ---- x -------

R2 *ℓ* 2 A1

R1 A1

R2 = ---------

A2

Rh = Rc ( 1 +  ( t2 - t1 ) )

kWh = kW x hours

Rt = R1+ R2 + R3

1 1 1 1

---- = ---- + ---- + ----

Rt R1 R2 R3

Q = VC

****o ****r A

C = -------------

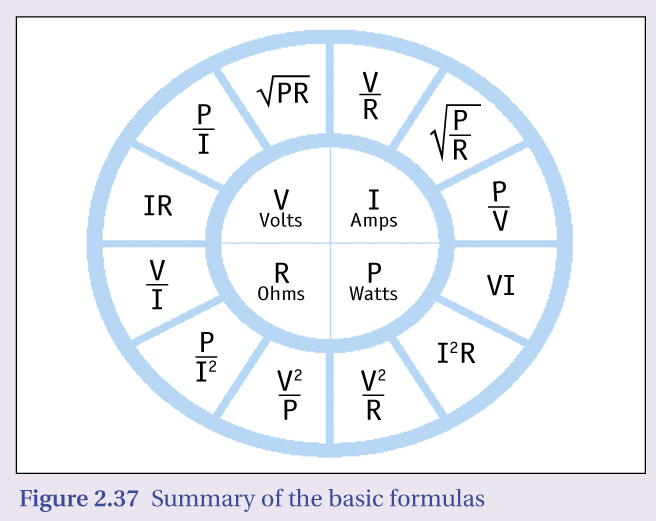
D

Ct = C1+ C2 + C3

1 1 1 1

---- = ---- + ---- + ----

Ct C1 C2 C3



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* = R C

At 1 **** Vc = 63.2% of Vmax.

P out x 100

 = ---------- %

P in

mgh

 = ----------

VIt

R1 X R3

R2 R4